

# UNITED STATES DEPARTMENT OF COMMERCE Unit d States Patent and Trad mark Offic

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	APPLICATION NO.	FILING DATE		IRST NAMED IN	VENTOR		mK
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Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

•	Application No.	Applicant(s)		
Office Action Summary	Examiner	Group Art Unit		
—The MAILING DATE of this communication appears	s on the cover shee	t beneath the correspondence address—		
P riod for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE 3	MONTH(S) FROM THE MAILING DATE		
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, expected to reply within the set or extended period for reply will, by statute</li> </ul>	ly within the statutory min	nimum of thirty (30) days will be considered timely.		
Status		, ,		
$\square$ Responsive to communication(s) filed on $\frac{3}{20}$	1			
☐ This action is <b>FINAL</b> .	F	•		
<ul> <li>Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935.</li> </ul>	r formal matters, <b>pro</b> C.D. 1 1; 453 O.G. 2	osecution as to the merits is closed in 13.		
Disp sition of Claims				
Of the above claim(s) $1-8,16-22,26,27$		ic/are pending in the application		
Of the above claim(s)	is loss withdraws from consideration			
□ Claim(s)		is/are without from consideration.		
□ Claim(s) is/are allowed.  □ Claim(s) □ - 2, 16 - 22, 26, 27 is/are rejected.				
☐ Claim(s)				
☐ Claim(s)		us/are objected to.		
Application Papers		are subject to restriction or election requirement.		
☐ See the attached Notice of Draftsperson's Patent Drawing R	Paviow PTO-948			
☐ The proposed drawing correction, filed on	is approved	□ disapproved		
☐ The drawing(s) filed on is/are objected	to by the Examiner.	a disapprovisa.		
The specification is objected to by the Examiner.				
☐ The oath or declaration is objected to by the Examiner.				
Pri rity under 35 U.S.C. § 119 (a)-(d)				
<ul> <li>□ Acknowledgment is made of a claim for foreign priority under</li> <li>□ All □ Some* □ None of the CERTIFIED copies of the</li> <li>□ received.</li> </ul>	r 35 U.S.C. § 11 9(a)- priority documents h	-(d). nave been		
<ul> <li>□ received in Application No. (Series Code/Serial Number)_</li> <li>□ received in this national stage application from the Internal</li> </ul>	ational Bureau (PCT I	Rule 1 7 2(a))		
*Certified copies not received:				
Attachment(s)		•		
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)	\	onto-ciam Communication DTO 440		
□ Notice of Reference(s) Cited, PTO-892		••		
☐ Notice of Draftsperson's Patent Drawing Revi w, PTO-948		Notice of Informal Patent Application, PTO-152		
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U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 1-8 and 26-27 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 3. The formula as recited in claim 1 is not supported by the specification as originally filed. The formula in page 9, lines 3-4 of the specification shows Cu is equal to (-3/5.4)(Mg-6)+1.5, not less than (-3/5.4)(Mg-6)+1.5. Said formula is for straight line 2 (between points B and G) in Figure 1A which encompasses Cu content from 1.5 to 4.5 wt.%. The expression "less than" would be invalid at point G which includes Cu content less than the point G. The Cu content less than point G is supported by said formula.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 1-8 and 26-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is indefinite because the Cu content represented by the formula as 6. recited in said claim is from 1.5 to 4.5 wt.% (see point G to point B as shown in instant Figure 1A) which is inconsistent with the recited Cu content about 3 to about 4.5 wt.%. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949).

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## Claim Rejections - 35 USC § 103

- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 9. Claims 1-8, 16-22, and 26-27 are rejected under 35 U.S.C. § 103 as being unpatentable over USP 5122339 to Pickens et al (PTO-1449, claim 1), USP 5211910 to Pickens et al (PTO-1449, abstract), USP 5259897 to Pickens et al (PTO-1449, abstract), JP 01025954 (abstract), WO 9532074 (abstract), WO 9212269 (abstract), or DE 2810932 (abstract).
- 10. The cited references disclose the features substantially as claimed. The disclosed features include the claimed Al base alloy. The difference between the reference(s) and the claims are as follows: the cited references do not disclose an

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equation items of Cu and Mg compositions. But, it is well settled that there is no invention in the discovery of a general formula if it covers a composition described in the prior art, In re Cooper and Foley 1943 C.D. 357, 553 O.G. 177; 57 USPQ 117, Taklatwalla v. Marburg, 620 O.G. 685, 1949 C.D. 77, and In re Pilling, 403 O.G. 513, 44 F(2) 878, 1931 C.D. 75. In the absence of evidence to the contrary, the selection of the proportions of elements would appear to require no more than routine investigation by those ordinary skilled in the art. In re Austin, et al., 149 USPQ 685, 688.. Therefore, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the subject matter disclosed by the reference. Overlapping ranges have been held to be a prima facie case of obviousness, See MPEP § 2112.01, In re Best, 195 USPQ 430, In re Malagari, 182 USPQ 549, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, and In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976).

# Response to Arguments

11. Applicant's arguments filed March 20, 2001 have been fully considered but they are not persuasive.

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12. Applicants argue that the claimed composition possesses unexpected results. However, the unexpected results have not been shown by the passages as suggested in the instant remarks because which fail to compare the claimed subject matter with the closest prior art. In re Burckel, 201 USPQ 67 and MPEP § 716. Comparison must be done under identical condition except for the novel features of the invention. In re Brown, 173 USPQ 685 and In re Chapman, 148 USPQ 711. The showing of unexpected results must be occurred over the entire claimed range. In re Clemens, 622 F.2d 1029, 206 USPQ 289, 296 (CCPA 1980). The scope of the showing must be commensurate with the scope of the claims. In re Coleman, 205 USPQ 1172 and In re Greenfield, 197 USPQ 227. Absent a showing of new and unexpected results, the mere optimizing in a known range for a desired result is within skill of ordinary artisan. In re Aller, et al., 105 USPQ 233.

#### Conclusion

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required,

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applicant should therefore specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06 (a) and 37 C.F.R. § 1.119.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (703) 308-2542. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (703)-308-1146.

The facsimile phone number for this Art Unit 1742 are (703) 305-3601 (Official Paper only) and (703) 305-7719 (Unofficial Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

**S. Ip** June 3, 2001